

# Multiplying and Dividing Non Variable Radicals with Square Roots

For this online assessment, copy the problems onto a sheet of paper and work them out by hand. Submit your written work in class after you use it to complete this online assessment.

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\* Required

Last Name \*

First Name \*

1. Please simplify the following with an exact value. \*

- ☐ A  
☐ B  
☐ C  
☐ D

$$\sqrt{8} \cdot \sqrt{8}$$

A.  $\sqrt{8}$       B.  $\sqrt{64}$       C. 8      D.  $4\sqrt{2}$

2. Please simplify the following with an exact value. \*

- ☐ A  
☐ B  
☐ C  
☐ D

$$-4\sqrt{6} \cdot 3\sqrt{3} \cdot \sqrt{5}$$

A.  $-36\sqrt{10}$     B.  $-60\sqrt{9}$     C.  $-12\sqrt{90}$     D.  $-120\sqrt{9}$

3. Please simplify the following with an exact value. \*

- ☐ A  
☐ B  
☐ C  
☐ D

$$5\sqrt{11} \cdot 3\sqrt{11} \cdot \sqrt{2}$$

A.  $\sqrt{3630}$     B.  $15\sqrt{242}$     C.  $15\sqrt{22}$     D.  $165\sqrt{2}$

4. Please simplify the following with an exact value. \*

- ☐ A  
☐ B  
☐ C  
☐ D

$$\frac{20\sqrt{30}}{12\sqrt{6}}$$

A.  $8\sqrt{24}$     B.  $\frac{5}{3}\sqrt{5}$     C.  $\frac{3}{4}\sqrt{5}$     D.  $8\sqrt{5}$

5. Please simplify the following with an exact value. \*

- ☐ A  
☐ B  
☐ C  
☐ D

$$\frac{12\sqrt{11}}{3\sqrt{11}}$$

- A.  $4\sqrt{22}$       B.  $4\sqrt{121}$       C. 4      D.  $4\sqrt{11}$

6. Please simplify the following with an exact value. \*

- ☐ A  
☐ B  
☐ C  
☐ D

$$\frac{-5\sqrt{3} \cdot 3\sqrt{8}}{2\sqrt{6}}$$

- A.  $\frac{-15}{2}\sqrt{2}$       B. -30      C.  $\frac{-15}{2}\sqrt{4}$       D. -15

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